L Number	Hits	Search Text	DB	Time stamp
16	2	"6162848"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/18 13:37
17	70148	styrene near2 butadiene	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/18 13:38
18	986	rosin near2 soap	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/18 13:38
19	42615	carpet$	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/18 13:38
20	77	(styrene near2 butadiene) same (rosin near2 soap)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/18 13:38
21	6	carpet$ and ((styrene near2 butadiene) same (rosin near2 soap))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2002/10/18 13:38

DERWENT-ACC-NO: 1984-189523
DERWENT-WEEK: 198431

TITLE: Continuous high solids SBR latex prodn. - in cascade reactor with 2 to
4 stages

INVENTOR: GAERTNER, P; MUELLER, V ; NIKLAS, N ; SCHAB, P ; STODOLKA, H
; STOECKEL, J ; STRICKER, J ; TOBISCH, H

PATENT-ASSIGNEE: CHEM WERK BUNA VEB[BUNA]

PRIORITY-DATA: 1982DD-0238728 (April 5, 1982)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DD 208740 A	April 4, 1984	N/A	013	N/A

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
DD 208740A	N/A	1982DD-0238728	April 5, 1982

INT-CL (IPC): C08F012/08; C08F036/06 ; C08F212/08 ; C08F236/06

ABSTRACTED-PUB-NO: DD 208740A
BASIC-ABSTRACT: Continuous prodn. of stable conc. styrene-butadiene latices is
claimed with a styrene content of 30-70 pts.wt. and a butadiene content of
70-30 pts.wt., based on emulsifiers such as alkyl naphthalene sulphonates
and/or alkyl sulphonates and/or alkylaryl sulphonates and alkali soaps of fatty
acids and/or alkali soaps of rosin acids, and with the addn. of nonionic
emulsifiers such as condensn. prod. of ethylene oxide with an alkylphenol or
fatty alcohol in the presence of known radical initiators and

chain transfer
agents. Prodn. is carried out in a cascade of 2-4 reactors to a monomer
conversion of virtually 100% without subsequent removal of monomer in a monomer
removal unit.

In the first reactor the reaction is carried out isothermally to a monomer
conversion of 50-85% at a polymerisation temp. of 50-70 deg.C, in combination
with an adiabatically conducted reaction in which the monomer conversion is
increased to 60-99% at a polymerisation temp. of 60-90 deg.C in the second or
second to third reactors and conversion is then increased to 100% in reactors 3
or 4 at the same polymerisation temp. The phase ratio hydrocarbon to aq. phase
is 100: 75-150, corresp. to a solids content of ca. 45-58%.

USE/ADVANTAGE - Continuous process giving high solids latex requiring no
monomer removal stage. High space/time yields of over 15 kg/m3/h can be
achieved. Prods. are useful as adhesives, bonding and impregnating agents for
fabrics, and for fixing nonwoven carpet materials.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS:
CONTINUOUS HIGH SOLID SBR LATEX PRODUCE CASCADE REACTOR STAGE

ADDL-INDEXING-TERMS:
POLYSTYRENE POLYBUTADIENE RUBBER

DERWENT-CLASS: A12

CPI-CODES: A04-B03A; A08-S05; A10-B03;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0951U; 1514U ; 1737U ; 5314U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:
Key Serials: 0009 0013 0037 0206 0224 0039 0041 0042 0044 0045 0046 0047 0048

0050 0051 0053 0230 0306 3159 1095 1279 1588 1592 1985 2001
2002 2014 2023 2029
2066 2071 2098 2099 2105 2122 2272 2276 2277 2375 2504 2556
2573 2651 2662 2682
2718 2723 2820 2822
Multipunch Codes: 014 028 030 032 034 039 04& 055 056 06- 075
09& 09- 10& 10-
117 122 147 15& 15- 17& 198 230 231 24- 240 255 264 266 27&
297 31- 311 318 324
325 336 352 357 397 423 436 44& 440 477 512 532 536 546 575
592 593 597 603 609
614 664 665 679 688 690 691 720
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